

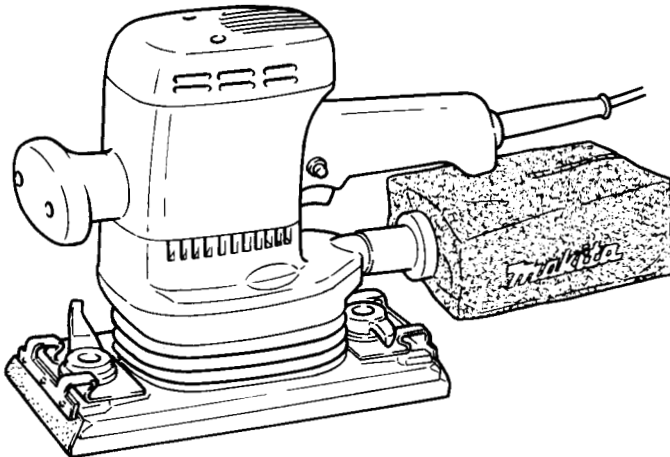
Makita

アメリカ

Orbital Sander

MODEL 9046

INSTRUCTION MANUAL



**DOUBLE
INSULATION**

SPECIFICATIONS

Pad size	Orbits per min.	Overall length	Net weight
115 mm x 229 mm (4-1/2" x 9")	6,000	283 mm (11-1/8")	3.0 kg (6.6 lbs)

* Manufacturer reserves the right to change specifications without notice.

• Note: Specifications may differ from country to country.

WARNING: For your personal safety, READ and UNDERSTAND before using.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

IMPORTANT SAFETY INSTRUCTIONS

(For All Tools)

WARNING: WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS.

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain. Don't use tool in presence of flammable liquids or gases.
3. **KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Don't let visitors contact tool or extension cord.
4. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place — out of reach of children.
5. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
6. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended; for example, don't use circular saw for cutting tree limbs or logs.
7. **DRESS PROPERLY.** Don't wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
8. **USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty.
9. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
10. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
11. **DON'T OVERREACH.** Keep proper footing and balance at all times.
12. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
13. **DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.

14. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
15. **AVOID UNINTENTIONAL STARTING.** Don't carry tool with finger on switch. Be sure switch is OFF when plugging in.
16. **EXTENSION CORDS.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

TABLE 1 MINIMUM GAGE FOR CORD SETS

			Total Length of Cord in Feet			
			0 – 25	26 – 50	51 – 100	101 – 150
Ampere Rating More Than	—	Not More Than	A W G			
0	—	6	18	16	16	14
6	—	10	18	16	14	12
10	—	12	16	16	14	12
12	—	16	14	12	Not Recommended	

17. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
18. **STAY ALERT.** Watch what you are doing, use common sense. Don't operate tool when you are tired.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Don't use tool if switch does not turn it on and off.
20. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
21. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.
22. **POLARIZED PLUGS.** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

VOLTAGE WARNING: Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user — as well as damage to the tool. If in doubt, **DO NOT PLUG IN THE TOOL**. Using a power source with voltage less than the nameplate rating is harmful to the motor.

ADDITIONAL SAFETY RULES

1. Hold the tool firmly.
2. Do not leave the tool running. Operate the tool only when hand-held.
3. This tool has not been waterproofed, so do not use water on the workpiece surface.

SAVE THESE INSTRUCTIONS.

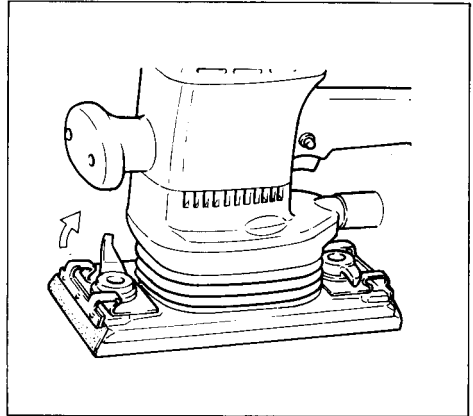
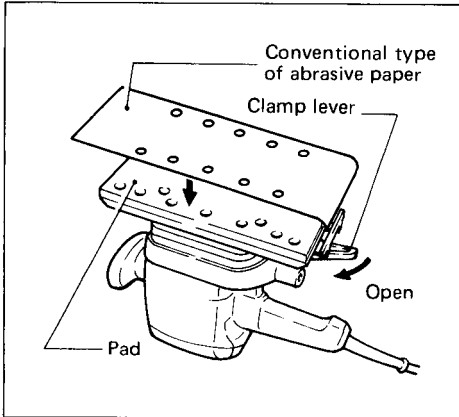
Installing or removing the abrasive paper

CAUTION:

Always be sure that the tool is switched off and unplugged before installing or removing the paper.

When using the conventional type of abrasive paper (standard equipment):

Turn the clamp lever to open the clamper. Insert the paper end into the clamper, aligning the holes in the paper with those in the pad. Then return the clamp lever to the original position to secure the paper. Repeat the same process for the other end of the tool, maintaining the proper paper tension.

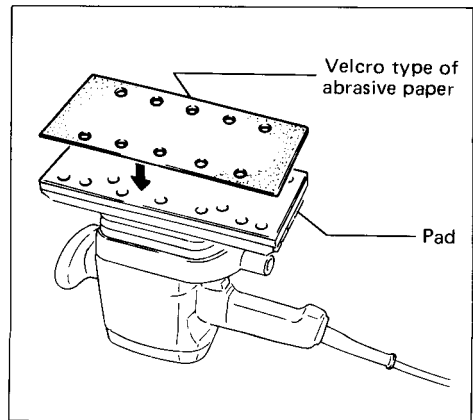


When using the velcro type of abrasive paper (optional accessory):

Remove all dirt or foreign matter from the pad. Attach the paper to the pad, aligning the holes in the paper with those in the pad.

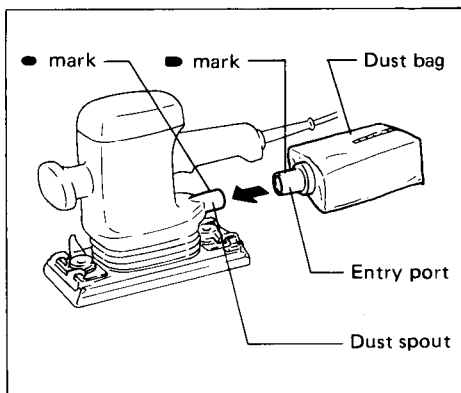
CAUTION:

Always use velcro type of abrasive papers.
Never use pressure-sensitive abrasive paper.



Dust bag

To install the dust bag, align the ● mark on the bag's entry port with the ● mark on the dust spout of the tool and fit the entry port onto the dust spout. Then turn the dust bag clockwise to secure it in place. For the best results, empty the dust bag when it becomes about half full. To remove the dust bag, follow the installation procedures in reverse.



NOTE:

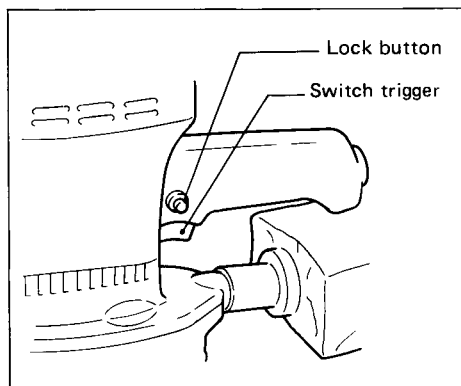
If you connect a Makita dust collector/vacuum cleaner to your sander, more efficient and cleaner operations can be performed.

Switch action

To start the tool, simply pull the trigger. Release the trigger to stop. For continuous operation, pull the trigger and then push in the lock button. To stop the tool from the locked position, pull the trigger fully, then release it.

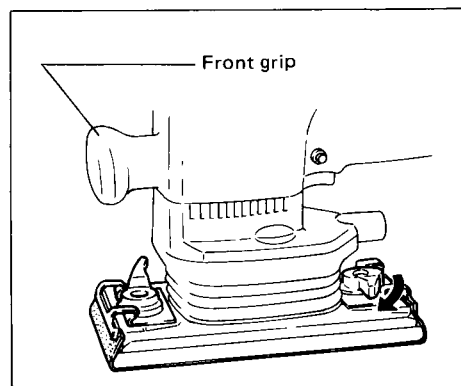
CAUTION:

Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.



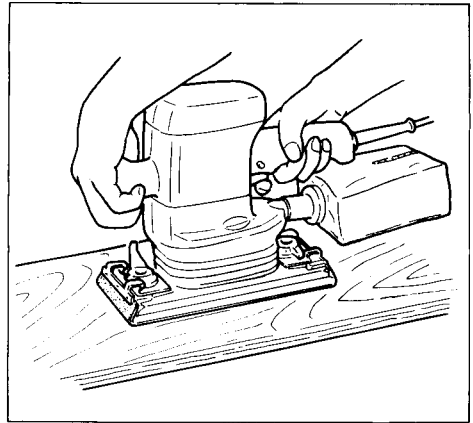
Front grip

The front grip position can be changed in 90° increments. Pull the front grip and rotate it to the desired position.



Operation

Turn the tool on and wait until it attains full speed. Then gently place the tool on the workpiece surface. Keep the base flush with the workpiece at all times. Apply slight pressure only. Excessive pressure may damage the paper and shorten tool life.



CAUTION:

Never run the tool without paper. You may seriously damage the pad.

MAINTENANCE

CAUTION:

Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

To maintain product SAFETY and RELIABILITY, repairs, carbon brush inspection and replacement, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

ACCESSORIES

CAUTION:

These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. The accessories or attachments should be used only in the proper and intended manner.

• Abrasive paper

(with pre-punched holes)

115 mm (4-1/2'') x 280 mm (11'')



Part No.	Grit	Use	Sheet per pkg.
A-14065	# 60	Coarse	10
A-14071	# 80	Coarse	10
A-14087	# 100	Medium	10
A-14093	# 120	Medium	10
A-14102	# 150	Fine	10
A-14118	# 180	Fine	10
A-14124	# 240	Fine	10

• Velcro type abrasive paper

(with pre-punched holes)

115 mm (4-1/2'') x 232 mm (9-1/8'')

Part No.	Grit	Use	Sheet per pkg.
A-14130	# 60	Coarse	5
A-14146	# 80	Coarse	5
A-14152	# 100	Medium	5
A-14168	# 120	Medium	5
A-14174	# 150	Fine	5
A-14180	# 180	Fine	5
A-14196	# 240	Fine	5

• Joint 25

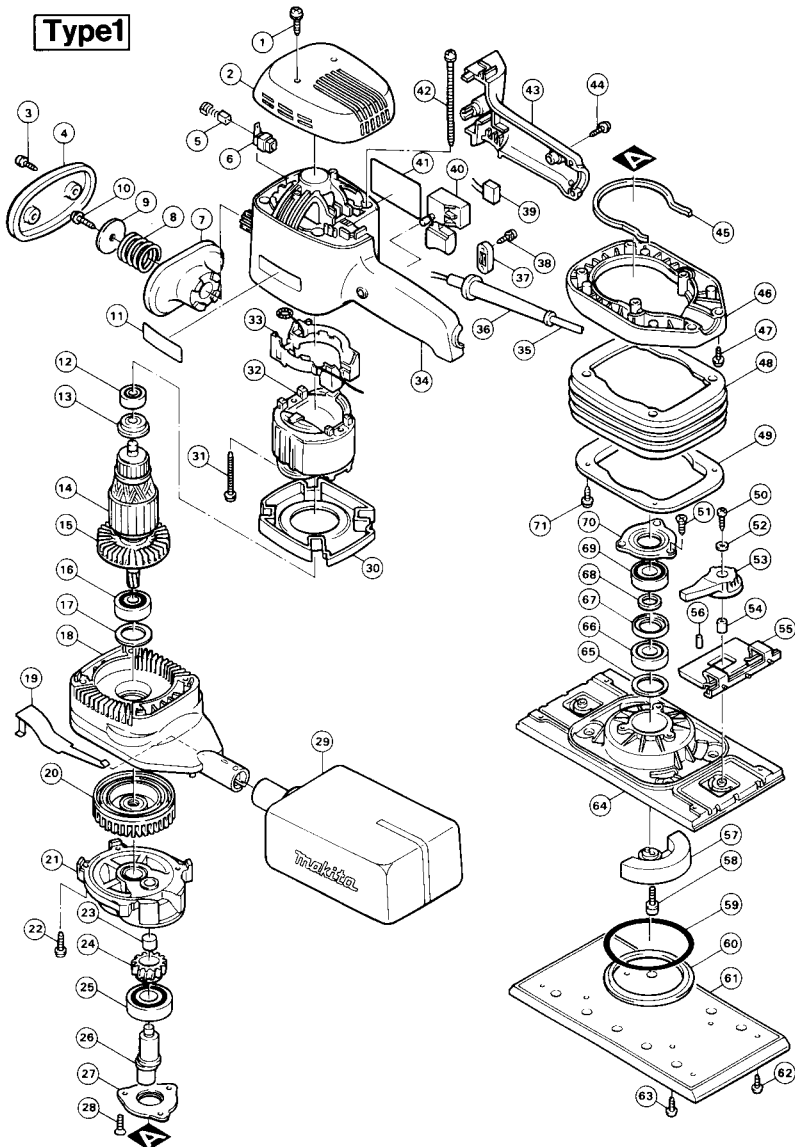
(for connecting to Model 431)

Part No. 192349-3



ORBITAL SANDER Model 9046

Type1



Note: The switch, noise suppressor and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
<u>MACHINE</u>			<u>MACHINE</u>		
1	2	Tapping Screw 4x18	36	1	Cord Guard
2	1	Top Cover	37	1	Strain Relief
3	2	Tapping Screw 4x18	38	2	Tapping Screw 4x18
4	1	Grip Cover	40	1	Switch
5	2	Carbon Brush	41	1	Name Plate
6	2	Brush Holder	42	4	Tapping Screw Bind CT 5x90
7	1	Grip Base	43	1	Handle Cover
8	1	Compression Spring 24	44	2	Tapping Screw 4x18
9	1	Flat Washer 5	45	1	Packing
10	1	Tapping Screw PT 5x20	46	1	Scroll Cover
11	1	Makita Label	47	2	Tapping Screw Flange PT 4x12
12	1	Ball Bearing 608LB	48	1	Rubber Sleeve
13	1	Insulation Washer	49	1	Plate
14	1	ARMATURE ASSEMBLY (With Item 12, 13, 15 & 16)	50	2	Tapping Screw Bind CT 4x20
15	1	Fan 60	51	3	Tapping Screw CT 4x12
16	1	Ball Bearing 6201DDW	52	2	Flat Washer 4
17	1	Flat Washer 26	53	2	Clamp Lever
18	1	Scroll Housing	54	2	Sleeve 4
19	1	Earth Plate	55	2	Paper Clamp Complete
20	1	Fan 68	56	4	Pin 3
21	1	Gear Box	57	1	Balancer
22	4	Tapping Screw Flange PT 4x20	58	1	Hex. Socket Head Bolt M5x16
23	1	Needle Bearing 810	59	1	O Ring 75
24	1	Helical Gear 39	60	1	Under Cover
25	1	Ball Bearing 6203DDW	61	1	Pad
26	1	Crank Shaft	62	4	Tapping Screw Bind CT 4x12
27	1	Bearing Retainer 24	63	4	Tapping Screw Bind CT 4x12
28	3	Tapping Screw CT 4x12	64	1	Base
29	1	Dust Bag Complete	65	1	Flat Washer 26
30	1	Baffle Plate	66	1	Ball Bearing 6002DDW
31	2	Tapping Screw Flange PT 5x45	67	1	Ring 19
32	1	Field	68	1	Ring 15
33	1	Support Complete	69	1	Ball Bearing 6002DDW
34	1	Motor Housing	70	1	Bearing Retainer 24
35	1	Cord	71	4	Tapping Screw Flange PT 4x12

Note: The switch and other part specifications may differ from country to country.

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- The tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

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